

WHAT IS CLAIMED IS:

1. An electric power supply system comprising;
an AC generator for generating a power to supply the
power to a load; and
controlling means disposed between said AC generator
and said load, wherein said controlling means performs a
control so that said AC generator operates in a current
range which is lower in level than an output current
corresponding to a maximum power operating point of said AC
generator.

2. The electric power supply system according to
claim 1, wherein said AC generator has drooping
characteristic in which, as said load is increased, an
output power is increased corresponding to a decrease of an
output voltage, and said output power is maximum at said
maximum power operating point, and said output power is
decreased corresponding to the further decrease of said
output voltage.

3. The electric power supply system according to
claim 2, wherein said controlling means performs a control
so that a load resistance of said AC generator starts from
an initial state, in which the load resistance is
substantially infinite, and is reduced with a passage of

time.

4. The electric power supply system according to claim 1, wherein said controlling means comprises:

rectifying means for rectifying an output of said AC generator; and

DC voltage converting means for lowering an output voltage of said rectifying means and supplying said output voltage to said load, and performs a feedback control so that an output voltage of said DC voltage converting means coincides with a target voltage.

5. The electric power supply system according to claim 2, wherein said controlling means comprises:

rectifying means for rectifying an output of said AC generator; and

DC voltage converting means for lowering an output voltage of said rectifying means and supplying said output voltage to said load, and performs a feedback control so that an output voltage of said voltage converting means coincides with a target voltage.

6. The electric power supply system according to claim 3, wherein said controlling means comprises:

rectifying means for rectifying an output of said AC

generator; and

DC voltage converting means for lowering an output
voltage of said rectifying means and supplying said output
voltage to said load, and performs a feedback control so
5 that an output voltage of said voltage converting means
coincides with a target voltage.

7. The electric power supply system according to
claim 1, wherein said load includes a battery.

8. The electric power supply system according to
claim 4, wherein said DC voltage converting means is DCDC
converter.

9. The electric power supply system according to
claim 4, wherein said DC voltage converting means
comprises:

a switching element for performing a switching
operation; and,

a control section for controlling a switching of said
switching element according to said output voltage.

10. The electric power supply system according to
claim 8, wherein said DC voltage converting means comprises
25 at least one of sensor for detecting an input current and

said input current is supplied to said control section.

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claim 8, wherein said control section controls said
5 switching element by means of a PWM control.

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